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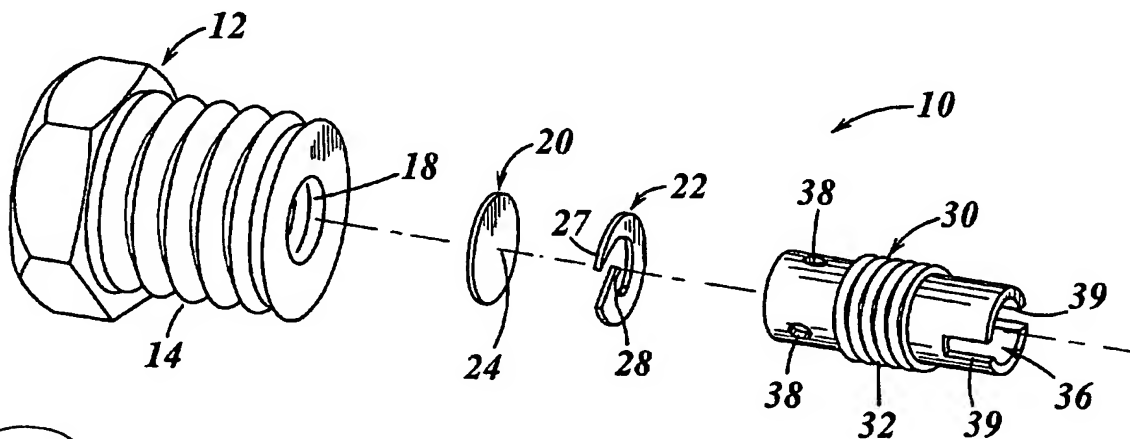
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(54) Title: SWIRL NOZZLE AND METHOD OF MAKING SAME



(57) Abstract: A spray nozzle includes a body defining an inlet chamber and an outlet. An orifice disk, adjacent the outlet, has opposing surfaces, an inner sidewall extending between the opposing surfaces which defines an orifice, and a peripheral sidewall extending between the opposing surfaces for centering the orifice disk within the inlet chamber. A swirl disk, adjacent to the orifice disk, has opposing surfaces and a sidewall extending between the opposing surfaces. The sidewall of the swirl disk forms a periphery for centering the swirl disk, a hollow for creating a vortex adjacent to the orifice and an inlet for channeling fluid from the periphery to the hollow. A plug is fixed within the inlet chamber of the body for retaining the orifice and swirl disks as well as defining an annulus area in fluid communication with the inlet of the swirl disk.